V24R-C

vpanel™

V-Panel™ 24” HD Touch Screen Displays

- *High-Definition 24” widescreen touch display*
- *1920 x 1200 WUXGA display resolution*
- *High-performance S-PVA display technology*
- *Rich, accurate color reproduction*
- *High 6ms speed response*
- *High contrast ratio, high aperture, high color gamut*
- *Ultra-wide 178 degree viewing angles*
- *Fully HDCP compliant*
- *Digital Graphics Engine (DGE-2) installs up to 330 ft away[1,2]*
- *Also works with DVPHD and DVPHD-GB Digital Video Processors[1,2,4]*
- *Single wire DigitalMedia 8G+™ connectivity*
- *Compatible with DigitalMedia™ switchers and transmitters*
- *Built-in HD scaler enables full-screen video without a DGE*
- *USB keyboard/mouse port*
- *VESA 100x200 mounting option*
- *Stylish flush wall and lectern mount options*
- *Available in white or black*

The V-Panel V24R-C merges high-definition Crestron® touch screen control and HD video in one stylish and versatile 24” touch screen display. Its generous WUXGA screen delivers stunning video performance even at extreme viewing angles, providing an exceptional HDTV or computer display solution with integrated touch screen functionality.

The V24R-C suits a broad range of residential and commercial applications, excelling as a home controller and television display for a luxury kitchen or bedroom, as a presentation control panel for a university lecture hall, or as a video control surface for corporate and government command centers. The choice of flush in-wall, lectern, or VESA mounting affords a clean, modern appearance for any custom installation.

The V24R-C replaces separate touch screens, TV displays, and computer monitors with one gorgeous device. Whether mounted flush in a wall or on a wall bracket, desk stand, or articulating arm, its streamlined design allows it to be installed virtually anywhere. Complete connectivity is provided through a simple one-wire interface that allows for long wire runs while affording a clean appearance. Together with a DGE-2 Digital Graphics Engine[1], the V24R-C delivers a powerful and elegant touch screen control solution featuring advanced Smart Graphics™, dual-window HD video, high-performance H.264 streaming video, onboard multimedia and Web browsing, and built-in annotation.

Beyond High-Definition Video

With a display resolution of 1920 x 1200, the V24R-C provides substantial real estate for all kinds of custom controls and icons with true feedback and real-time status display, full-motion video windows, and advanced navigation of digital media servers, tuners, and other devices. The 16:10 aspect ratio allows a full HD 1080p video image to appear full size along with a custom control bar, providing immediate access to AV and lighting controls, clock and weather widgets, scrolling text and other objects while simultaneously watching TV or viewing a video camera.

The V24R-C employs high-performance S-PVA display technology to deliver an optimum HD experience with rich, accurate color reproduction, high speed response, and excellent black depth and contrast. Ultra-wide 178 degree horizontal and vertical viewing angles ensure consistent picture quality on and off axis, alleviating the need to be directly in front of the screen when reaching for an on-screen control or just catching the morning news.

Digital Graphics Engine

For a typical control application using the V24R-C, a DGE-2 Digital Graphics Engine is also required.[1] The DGE-2 can be installed at the central equipment location, dramatically reducing all the wiring from head end AV sources, switchers, and the control network. A single CAT5e or DigitalMedia 8G™ Cable connects the V24R-C to the DGE-2 over a wiring distance of up to 330 feet (100 m), affording exceptional flexibility while minimizing wiring cost and complexity.[2]

Smart Graphics™

Crestron touch screens use Smart Graphics to deliver the ultimate user experience *and* the ultimate value by enabling the creation of dynamically rich user interfaces with incredible efficiency and unparalleled functionality. Using Smart Graphics, programmers can swiftly integrate fluid gesture-driven controls, animated feedback, metadata, embedded apps, and full-motion video for a deeply engaging and ultra-intuitive touch screen experience.

V24R-C V-Panel™ 24” HD Touch Screen Displays

Crestron Smart Graphics include the following enhancements:

- Cool-looking graphical buttons, sliders, knobs, and gauges are intuitive and fun to use.
- Kinetic effects enhance the feeling of realism with lists and toolbars that scroll with momentum at the flick of a fingertip.
- Drag-and-drop objects snap into place offering an easy way to switch sources.
- Dashboard widgets personalize the touch screen with clocks, weather, news, and other information.
- Customizable themes allow a completely different look and feel for every user, event, or season.
- Fully-developed SmartObjects™ enable sophisticated control over complex devices with minimal programming.

Embedded PC Applications

In combination with a DGE-2 graphics engine, the V24R-C provides everything you need to enjoy online music and videos, browse the Internet, and even review digital documents without a separate computer. With Microsoft® Internet Explorer® embedded, you have full access to the entire World Wide Web including sites that use Flash® or Java®. Windows Media® Player ensures broad compatibility for playing most types of digital media. Adobe® Acrobat® Reader and Microsoft PowerPoint®, Word, and Excel® document viewers complete the online experience, allowing you to download and view documents and presentations.

In addition, VNC Viewer support delivers enhanced cross-platform interaction with computers over the network or Internet, allowing remote access and control of desktop applications to unleash a host of possibilities for system integration and multimedia presentation.

HD Streaming Video

High-definition streaming video capability makes it possible to view security cameras and other video sources over the network right on the touch screen. Native support for H.264 and MJPEG formats allows the V24R-C and DGE-2[1] to display live video images from IP cameras and servers such as the Crestron CEN-NVS200 Network Video Streamer[1]. And, through the embedded Web browser and media player, they support a wide variety of other streaming and downloadable video formats, enabling access to all kinds of content from media servers and Web sites like YouTube® and Netflix®[3].

HDMI® and Analog Video

In addition to handling streaming video, the V24R-C can simultaneously display up to two fully-scalable, full-motion video windows, each supporting HD or SD video and high-resolution computer signals from external sources. All connections are made at the DGE-2 using conventional HDMI, VGA, and BNC type cables.

HDCP Support

Industry-leading support for HDCP (High-bandwidth Digital Content Protection) ensures seamless compatibility with content-protected DVD, Blu-ray Disc®, digital HDTV, and multimedia computer sources.

Keyboard/Mouse Options

On-screen keyboard and mouse capabilities enable complete control of the embedded Web browser and other applications, and can also be used to control computers running TouchPoint® Virtual Mouse & Keyboard Software (VMK-WIN). A USB port is also provided on the V24R-C, allowing for the connection of a physical keyboard and mouse.

Real-Time Annotation

Whether conducting a high-level boardroom meeting, training seminar, or watching sports in your home theater, annotation helps put the fine point on any presentation. Built-in annotation provides the ability to illustrate your thoughts on-the-fly, letting you draw and write over high-definition video and computer images, and sketch out ideas on a whiteboard screen, without leaving the podium or your favorite chair while other viewers watch on the big screen.

Remote Annotation

Remote annotation capability allows multiple touch screen users to draw with their fingertips over the same video image or whiteboard screen, enabling enhanced interaction between several participants in a courtroom, classroom, or council chamber.

Presentation Output

Through an HDMI or DigitalMedia™ connection at the DGE-2, the V24R-C screen image can be sent to additional display devices, allowing videos, PowerPoint presentations, annotation, and other on-screen media to be shared with a live audience. Audio can also be enabled using powered speakers or a larger audio system connected to the DGE-2’s HDMI, DigitalMedia, or analog audio outputs.

DigitalMedia™

DigitalMedia (DM®) connectivity opens up new ways to configure a touch screen control system. For instance, using a DM switcher such as the DM-MD8X8[1], multiple V24R-C touch screens can be connected to a single DGE-2, providing a simple, cost-effective way for multiple participants to view and control the same graphical interface. DigitalMedia also provides a versatile means for distributing touch screen content to additional display devices and sound systems to serve a larger audience.

The V24R-C features a DM 8G+™ type input, supporting the connection to a DGE-2 Digital Graphics Engine via a DM 8G+ transmitter (DM-TX-201-C or equivalent[1]). It can also connect directly to any DM switcher equipped with a DM 8G+ output. A single CAT5e or DigitalMedia 8G cable carries all video, audio, Ethernet, USB, and control signals up to 330 ft (100 m).[2]

DVPHD Integration

In addition to the DGE-2, V-Panel is also compatible with the award-winning DVPHD High-Definition Digital Video Processor[1], enabling the display of up to 8 simultaneous video windows along with HD touch screen graphics and annotation. The DVPHD supports high-definition video and computer signals from a wide variety of digital and analog sources. Its DVI output connects to the V24R-C via a DM 8G+ transmitter or DigitalMedia switcher.[2,4]

V24R-C V-Panel™ 24” HD Touch Screen Displays

SPECIFICATIONS

Touch Screen Display

Display Type: TFT active matrix color LCD
Size: 24 inch (610 mm) diagonal
Aspect Ratio: 16:10 WUXGA
Resolution: 1920 x 1200 pixels
Brightness: 300 nits (cd/m2)
Contrast: 1000:1
Response Time: 6 ms G-to-G
Color Depth: 24-bit, 16.7M colors
Illumination: Backlit fluorescent
Viewing Angle: ±89° horizontal, ±89° vertical
Touch Screen: Resistive

Buttons & Indicators

Hard Key: (1) Programmable pushbutton, illuminates green to indicate power is on, reboots the DGE if held for 5 seconds
DM 8G IN (Rear): (2) LEDs, green LED indicates DM link status, amber LED indicates DM signal stream and HDCP status

Communications

DigitalMedia™: DM 8G+™, HDCP, EDID, 100 Mbps Ethernet
USB: USB host, supports USB HID class devices

Video

Input Signal Type: DM 8G+
Input Resolution: 1920x1200@60Hz native, or any other progressive resolution up to 1920x1200@60Hz

Refer to DGE-2 or DVPHD specifications for additional information.

Connectors

24VDC 3.7A (V24R-C and V24RL-C models): (1) 2-pin 5mm detachable terminal block, 24 Volt DC power input;
Connects to V24-IMCW-C interface module via V-CBL-SC cable[5];
PW-2435RU power pack included

24VDC 3.7A (V24R-WALL-C model): (1) 2-pin 5mm detachable terminal block, 24 Volt DC power input;
PW-2435DUL power pack included

DM 8G IN (V2R4-C and V24RL-C models): (1) 8-pin RJ45 female, shielded, DM 8G+ input;
Connects to V24-IMCW-C interface module via V-CBL-SC cable[5]

DM 8G IN (V24R-WALL-C model): (1) 8-pin RJ45 female, shielded, DM 8G+ input;
Connects to DM 8G+ output of a DM transmitter or switcher via CAT5e or Crestron DM-CBL-8G cable[2]

USB HID: (1) USB Type A female;
USB host port for connection of a mouse/keyboard or other USB HID-compliant device

Power Requirements

Power Pack: 3.7 Amps @ 24 Volts DC;
100-240 Volt AC, 50/60Hz power pack included;

V24R-C and V24RL-C models include PW-2435RU power pack, which connects to the V24-IMCW-C interface module[5];

V24R-WALL-C model includes PW-2435DUL power pack, which connects directly to the touch screen

Environmental

Temperature: 41° to 113°F (5° to 45°C)
Humidity: 10% to 90% RH (non-condensing)
Heat Dissipation: 291 BTU/Hr

Enclosure

V24R-C: Plastic case, VESA 100x200 mm mountable
V24R-WALL-C: Includes metal rear enclosure with plastic front bezel, additional mounting accessory required[1,6]
V24RL-C: Includes metal rear enclosure with plastic front bezel, fan-cooled, additional mounting accessory recommended[1,6]

Dimensions

V24R-C: Height: 15.52 in (395 mm);
Width: 23.09 in (587 mm);
Depth: 2.81 in (72 mm)
V24R-WALL-C: Height: 16.79 in (427 mm);
Width: 24.44 in (621 mm);
Depth: 3.43 in (87 mm)
V24RL-C: Height: 16.79 in (427 mm);
Width: 24.44 in (621 mm);
Depth: 3.43 in (87 mm)

Weight

V24R-C: 21.5 lb (9.76 kg)
V24R-WALL-C: 24.0 lb (10.89 kg)
V24RL-C: 24.6 lb (11.16 kg)

V24R-C V-Panel™ 24” HD Touch Screen Displays

MODELS & ACCESSORIES

Available Models

V24R-C-B: V-Panel™ 24” VESA Mount HD Touch Screen Display, DM 8G+™, Black
V24R-C-W: V-Panel™ 24” VESA Mount HD Touch Screen Display, DM 8G+™, White
V24R-WALL-C-B: V-Panel™ 24” Wall Mount HD Touch Screen Display, DM 8G+™, Black
V24R-WALL-C-W: V-Panel™ 24” Wall Mount HD Touch Screen Display, DM 8G+™, White
V24RL-C-B: V-Panel™ 24” Lectern Mount HD Touch Screen Display, DM 8G+™, Black
V24RL-C-W: V-Panel™ 24” Lectern Mount HD Touch Screen Display, DM 8G+™, White

Included Accessories

PW-2435RU: Regulated Universal Power Pack for V24R-C & V24RL-C (Qty. 1 included with V24R-C-B, V24R-C-W, V24RL-C-B & V24RL-C-W)
PW-2435DUL: Regulated Universal Power Pack for V24R-WALL-C (Qty. 1 included with V24R-WALL-C-B & V24R-WALL-C-W)
V24-IMCW-C: Interface Module for V24R-C & V24RL-C (Qty. 1 included with V24R-C-B, V24R-C-W, V24RL-C-B, & V24RL-C-W)
V-CBL-S6C-B: V-Cable Siamese Cable, DM 8G+™, 6 ft, Black (Qty. 1 included with V24R-C-B & V24RL-C-B)
V-CBL-S6C-W: V-Cable Siamese Cable, DM 8G+™, 6 ft, White (Qty. 1 included with V24R-C-W & V24RL-C-W)

Available Accessories

DGE-2: Digital Graphics Engine w/HDMI® and DigitalMedia™ CAT Connectivity
DM-TX-201-C: DigitalMedia 8G+™ Transmitter 201
V24-IMCW-C: Interface Module for V24R-C & V24RL-C
V-CBL-SC Series: V-Cable Siamese Cables, DM 8G+™
DM-CBL-8G-NP: DigitalMedia 8G™ Cable, non-plenum
DM-CBL-8G-P: DigitalMedia 8G™ Cable, plenum
DM-8G-CONN-100: DigitalMedia 8G™ Cable Connector, 100-Pack
DM-8G-CRIMP: Crimping Tool for DM-8G-CONN
BB-V24: Back Box for V24R-WALL-C
BBI-V24: Back Box for V24R-WALL-C - International Version
PMK-V24: Pre-Construction Mounting Kit for V24R-WALL-C and V24RL-C

Notes:

1. Item(s) sold separately.
2. The V24R-C features a DM 8G+ type input. Connection to a DGE-2 or DVPHD requires a DM 8G+ transmitter or DM switcher. For wiring up to 330 ft (100 m) in length, use Crestron DM-CBL-8G DigitalMedia 8G Cable or third-party CAT5e (or better) UTP or STP. Shielded cable and connectors are recommended to safeguard against unpredictable environmental electrical noise which may impact performance. Refer to the Crestron DigitalMedia Design Guide, Doc. #4546 for DM system design guidelines. The V24R-C and V24RL-C models each include (1) V-CBL-S6C 6 ft V-Cable and (1) V24-IMCW-C interface module. The V24R-WALL-C model includes no cable or interface module. For complete information, please refer to the spec sheet for each individual product, or contact your Crestron representative.
3. Accessing Netflix content requires an active Netflix account. See www.netflix.com for details.
4. An Ethernet-enabled control system and DM 8G+ interface are required for use with a DVPHD. Be advised, DVPHD does not support streaming media, Web browsing or other embedded PC functionality.
5. Items included. Refer to the spec sheet for each item for additional information.
6. V24R-WALL-C model must be installed in an upright position with the screen perpendicular to the floor. V24RL-C model may be mounted in an angled lectern or table top. Allow adequate space at the top and bottom of the rear housing for proper ventilation.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

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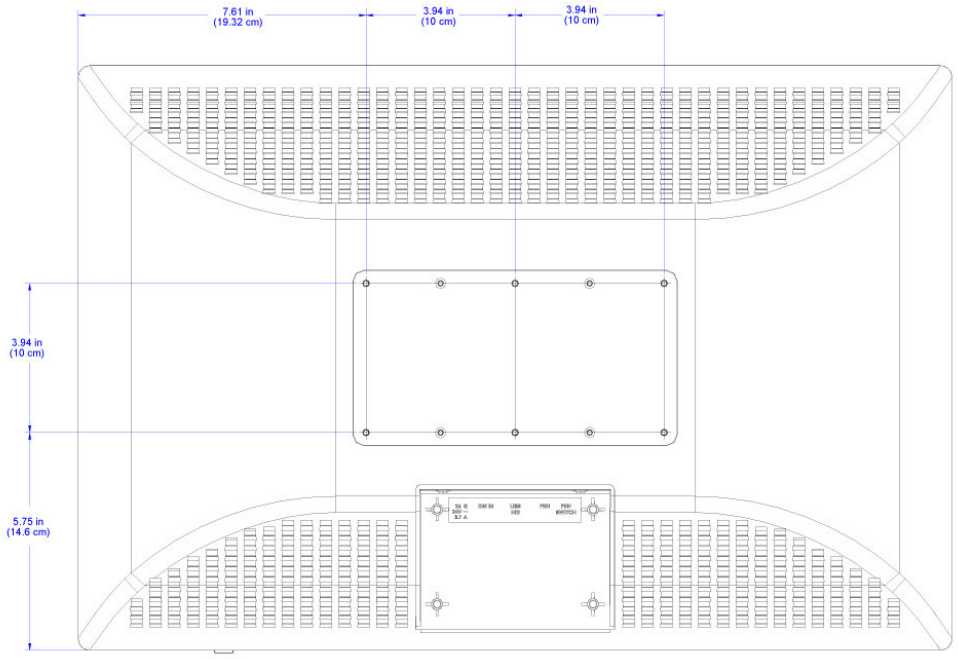
V24R-C V-Panel™ 24” HD Touch Screen Displays



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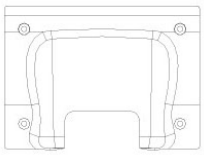

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Specifications subject to change without notice. Revised 04/25/13

PC190 Podium Camera

The Audio Video Camera

Lumen
Brighter Teac

The Lumens™ PC190 Podium™ is a high-resolution multimedia document camera that de crystal clear SXGA resolution with a powerful 5.5x optical zoom lens. One-touch audio/ recording and playback that does not require a computer. A large image shooting area n teachers can share a view of large pages and objects instantly. The PC190 camera hea lamp are mounted on adjustable gooseneck arms that allow you to examine objects fror angle.

Key Features:

- **High-Resolution XGA, SXGA, and WXGA**
- **One-Touch Video/Audio Recording and Playback**
- **Built in Microphone**
- **5.5x Optical Zoom, Manual Zoom**
- **8x Digital Zoom**
- **Annotation without a computer!**
- **Supports Wireless mouse devices**
- **Internal Memory for 120 JPEG Images**
- **USB Drives supports up to 32 GB**
- **Compatible with ALL Interactive Whiteboards (IWB)**
- **Time-Lapse Photography**
- **Automatic and Manual Slide Show**

PODIUM
DOCUMENT CAMERAS

Specifications

PC190

IMAGING

Full screen Video/audio recording and playback
Output Resolution : XGA (1024 x 768), SXGA (1280 x 1024), WXGA (1280 x 800)
Frame Rate : VGA - 30 fps ; USB - 30 fps
Zoom Capacity : 5.5x optical zoom and 8x digital zoom
Capture Area : 419.1 x 315 mm (16.5" x 12.4")

LIGHTING

Lamp Type : 2 lamps for completely even light coverage
Light Box : Optional

INPUT/OUTPUT

Power Supply : Built-in, 100-240 VAC, auto switching
VGA In : Active pass through from the computer
VGA Out : VGA output to the projector
Audio In : Built-in microphone
Audio Out : 3.5mm phone jack for earphones or speakers
Internal Memory Capacity : Up to 120 JPEG images
External Memory Capacity : Support USB Drive
USB Support : USB 2.0 High Speed (up to 480 Mbps) for seamless integration with interactive whiteboards
RS-232 : Yes
C-Video : RCA Jack (PAL, NTSC)

SOFTWARE

Podium View™ Software Included : Support PC Windows 7, XP, Vista and Mac OSX. (Free download from Lumens™ website.)
Video Recording with Audio : Record video with various compression format.
Image Capture : Single or continuous capture of JPEG images.
Annotation : Add annotations directly to live image.
Controls and Operations : Same set of controls as the remote control
USB Driver : Support UVC, WIA and TWAIN for integration with interactive whiteboards including Promethean™, SMART™, Hitachi Starboard™, Mimio™, and others.

ACCESSORIES

Standard : Power cable, VGA cable, USB cable, Microscope adapter (x 3), Audio Cable, Remote Control
Optional : Padded carrying case, light box, USB 2.0 high speed 5m (15 foot) extension cable, 8m (25 foot) Power cable, RS232 Adapter

OPERATION FUNCTIONS

Auto Tune : Yes, single button to adjust for best possible images
Auto Exposure : Yes
Auto White Balance : Yes
Auto Focus : Yes
Photo/Text Mode : Choose photo/grayscale/text mode
Image Mode : Choose normal/35mm slide/microscope/negative
Image Capture : Single capturing of images to built-in memory, c computer via USB
Video Recording : One-touch, Video recording and playback wit from built-in microphone
Picture In Picture (PIP) : Yes
Freeze : Yes
Slide Show : FastSlide™ Technology to automatically or manually playback saved images
Image Rotation : Full screen image rotation from 90,180 to 270
Annotation : Yes, Annotion with or without a computer
Spotlight : Yes
Low Light Mode : Yes
Pan Across the Screen : Enlarged any part of the image and pa it by using the arrow keys.
Mask : Yes
Projector Type : Yes, supports both LCD and DLP projectors
Volume control : Yes, via remote or OSD

SECURITY

Lock-Down Mode : Lock the unit with password entry
Auto Erase Mode : Option to automatically erase internal memo during power down
Anti-Theft : Kensington Lock Port on document camera chassis.
Bolt Holes on Bottom for Mounting :
VESA standard 75 x 75 mm (2.95" x 2.95")

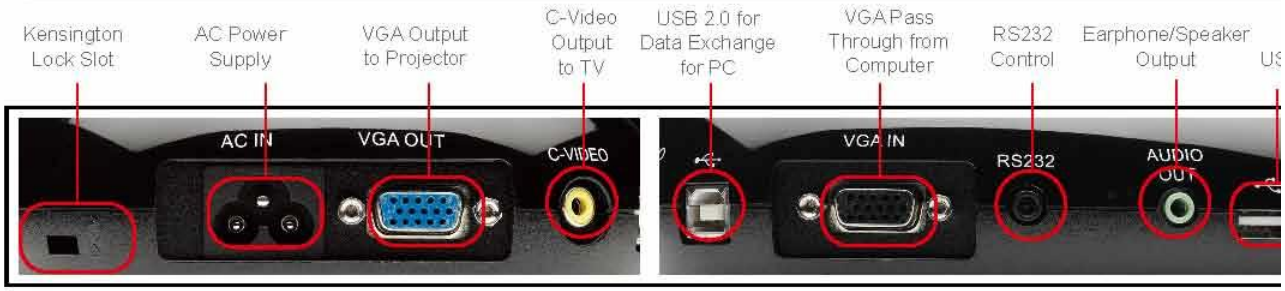
OTHER

Weight : 2.3kg (5.0 lbs)
Dimensions Operating : 360 x 140 x 460 mm (14.2" x 5.5" x 18.1")(L
Dimensions Folded : 240 x 140 x 320 mm (9.4" x 5.5" x 12.6")(L x
Warranty : 5 year warranty

COMPLIANCE

Lumens™ comply with these important standards :
FCC-EMI, cUL, CE-EMC, CE-LVD, RoHS, and WEEE.

I/O CONNECTIONS



FT-PWR-D

FlipTop™ Power Center, Small

- *Stylish flush-mount FlipTop™ housing*
- *Easy pull-out universal cable management*
- *Optional cable retractors*
- *Dual AC power outlets*
- *Black anodized or brushed aluminum finish*
- *Small size matches the C2N-FTB-D FlipTop Control Center*

The FT-PWR-D FlipTop™ Power Center by Crestron® provides an elegant connectivity solution in a stylish flush mount tabletop design. Popping open the "FlipTop" lid exposes the cable storage compartment where interface cables are kept at the ready for plugging in laptop computers, mobile devices, AV sources, and other equipment. Its compact size requires a minimal footprint, and matches the appearance of the C2N-FTB-D FlipTop Control Center. For a larger version of the FlipTop Power Center, see model FT-PWR-D-LG.

FlipTop Power Centers are ideal for use with AV distribution systems like Crestron DigitalMedia™, allowing the signal transmitters and receivers to be installed out of sight beneath the tabletop, with the user interface cables organized neatly within the cable storage compartment.

FlipTop Housing

Handsomely finished in a choice of black anodized or brushed aluminum, the FT-PWR-D lends a contemporary metallic accent to conference tables and podiums. It mounts flush in virtually any flat, horizontal surface up to 1-13/16 inch (46 mm) thick for a clean, low-profile appearance.

Cable Storage Compartment

The FT-PWR-D provides easy pull-out storage for Crestron Certified Interface Cables[1] and a wide variety of other AV, data, and communication cables. Eight grommeted holes are provided in the bottom of the storage compartment to accommodate either premade or custom cables, allowing each cable to be pulled out smoothly as needed. When not in use, the user end of each cable stows neatly within the storage compartment while excess cable simply drops out-of-sight below the box.

Cable Retractor Option

For an even more refined cable management solution, the FT-PWR-D accommodates up to three Crestron CBLR Series Cable Retractors. Crestron cable retractors feature a patent-pending, lever-actuated retraction mechanism that ensures smooth operation while eliminating hanging cable loops beneath the table.[2]

Dual AC Power Outlets

For complete connectivity, the FT-PWR-D includes two AC power receptacles within the FlipTop compartment.

SPECIFICATIONS

Connectors - Front Panel

125V~50/60Hz 10A: (2) Grounded AC sockets, AC power pass-thru outlets;
Maximum Load: 10 Amps (total) @ 125 Volts AC, 50/60 Hz

Connectors - Bottom Panel

125V~50/60Hz 10A: (1) 9 ft grounded AC line cord;
Passes through to front panel AC power outlets

Environmental

Temperature: 41° to 104°F (5° to 40°C)
Humidity: 10% to 90% RH (non-condensing)

Enclosure

Chassis: Metal, black
Cover: Aluminum, black anodized or brushed aluminum finish
Mounting: Flush tabletop mount, 1-13/16 in (46 mm) maximum surface thickness, 5-5/16 in (135 mm) deep x 6-3/8 in (162 mm) wide cutout (template provided)

FT-PWR-D FlipTop™ Power Center, Small

Dimensions

Height: 5.39 in (137 mm) with lid closed
Width: 6.75 in (172 mm)
Depth: 5.71 in (145 mm), 7.21 in (184 mm) with mounting brackets

Weight

3.75 lb (1.70 kg)

MODELS & ACCESSORIES

Available Models

FT-PWR-D-B: FlipTop™ Power Center, Small, Black Anodized
FT-PWR-D-BALUM: FlipTop™ Power Center, Small, Brushed Aluminum [Special Order]

Available Accessories

CBLR Series: Cable Retractors for FlipTop™ Boxes
CBLRA-BRKT-3-FT: Cable Retractor Mounting Bracket for Small FlipTop™ Boxes
CBLRA-BRKT-3-H: Horizontal Mounting Option for CBLRA-BRKT-3-FT
CBLRA-INSERT-BLANK: Blank Insert for Cable Retractor Mounting Brackets
CBLRA-INSERT-2WIRE: 2-Wire Insert for Cable Retractor Mounting Brackets
CBL Series: Crestron® Certified Interface Cables

Notes:

1. Interface cables sold separately.
2. Adding the cable retractor option removes all eight of the standard grommeted cable holes. Cable retractors and related accessories sold separately. See the CBLR spec sheet for more information.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

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The specific patents that cover Crestron products are listed online at: patents.crestron.com.

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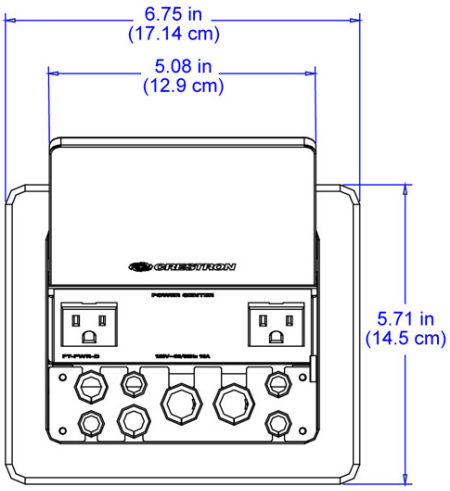
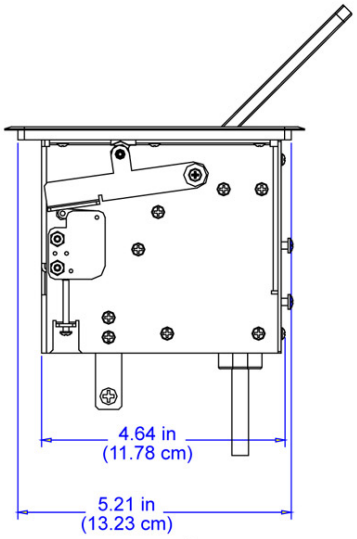
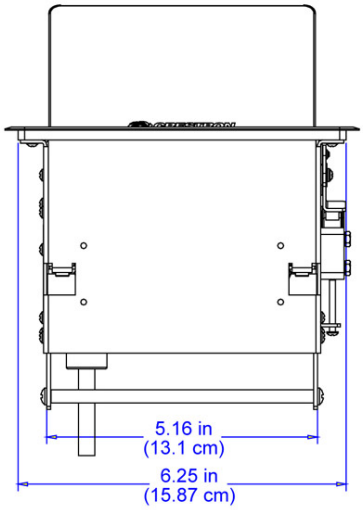
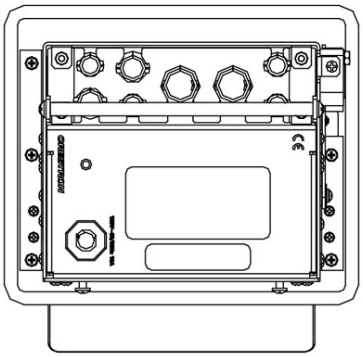
FT-PWR-D FlipTop™ Power Center, Small

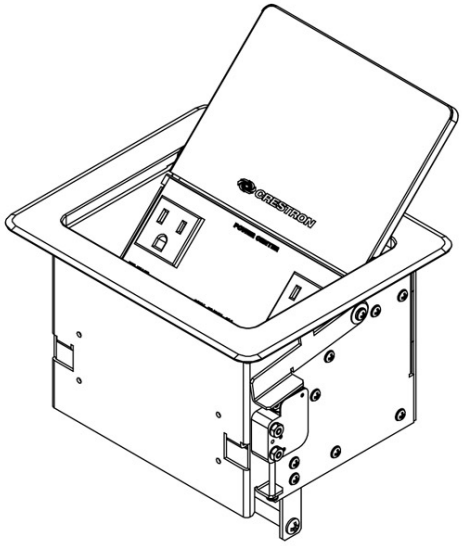


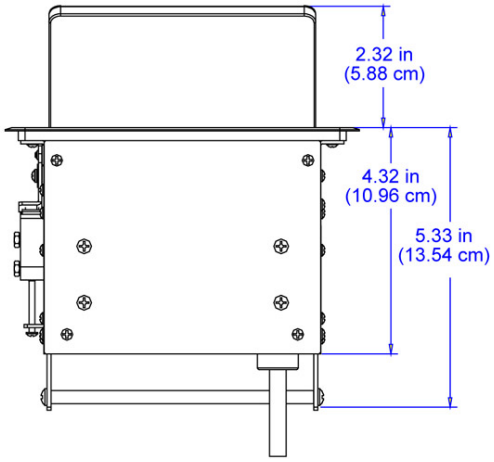
With Cable Plate Installed



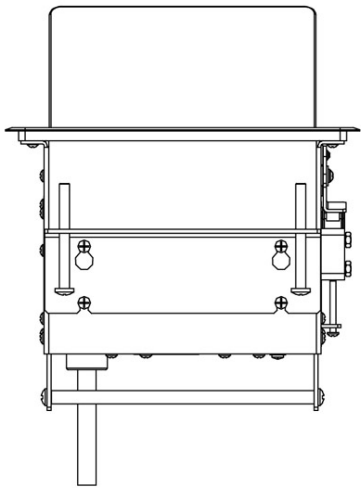


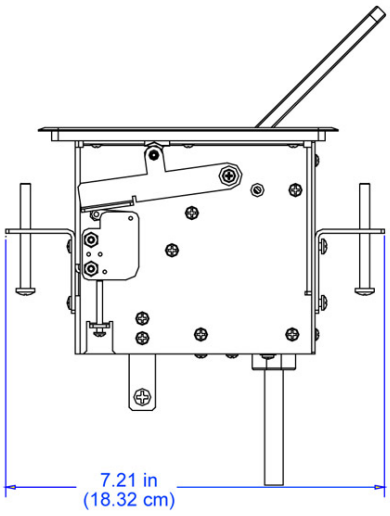


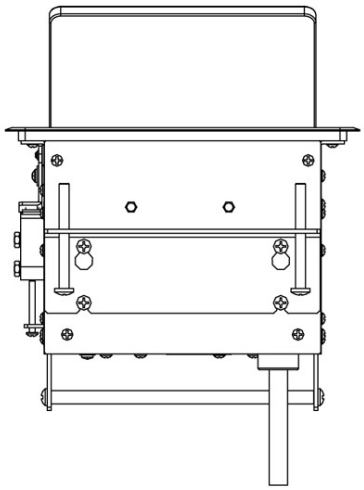




With Mounting Hardware Installed







Crestron Electronics, Inc. 15 Volvo Drive | Rockleigh, NJ 07647
Tel: 800.237.2041 / 201.767.3400 | Fax: 201.767.1903
www.crestron.com

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Specifications subject to change without notice. Revised 12/17/12

3D Blu-ray Disc Player with Super Wi-Fi

Model number: BDP-S5100

Write a Review

Model Features: super Wi-Fi®, premium design, access to Sony Entertainment Network, Full HD 1080p Blu-ray Disc™ playback, 2D to 3D conversion, Sideview™ smartphone/tablet remote app

In Stock Estimated ship date: 09/04/2013

Free 2-day shipping on orders over $50 (excluding TVs over 46").

~~$139.99~~ **$129.99**

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Get 4 free movie rentals from Video Unlimited with purchase.
Learn More

Get the Sony Card and earn a $100 statement credit.
Learn More

Tweet Like 73 people like this.

Product Specifications

Audio Features

HDMI

DSD output : Yes

DSD to LPCM conversion out : Yes (176.4kHz/88.2kHz/44.1kHz)

DTS HD Master Audio bit-stream out : Yes

Dolby TrueHD bit-stream out : Yes

LPCM 2ch out : Yes (192kHz/96kHz/48kHz)

LPCM 6ch (5.1) out : Yes (192kHz/96kHz/48kHz)

LPCM 8ch (7.1) out : Yes (96kHz/48kHz)

Decodability

AV Sync : Yes

Dolby® : Dolby True HD decoding (2Ch)

dts : DTS-HD Master Audio decoding (MA)

Coaxial

DTS Neo 6 : Yes

DTS bit-stream out : Yes

Dolby Digital bit-stream out : Yes

LPCM 2ch (~96kHz/~24bit) out : Yes

General

FW Update

Disc (CD-R) : Yes

Network : Yes

Convenience Features

GUI

XMB (Xross Media Bar) : Yes

2nd Display

TV Companion : Yes (TV SideView)

Device : Yes (iPhone, Android, PC)

Playback Features

Repeat

All : Yes
Chapter : Yes
Title : Yes
Track : Yes

Playback Control

PREV/NEXT : Yes
Play/Stop/Pause : Yes
REV/FWD : Yes
STEP Playback (FWD/REV) : Yes
Slow Playback (FWD/REV) : Yes

Video Features

Noise Reduction

BNR : Yes
MNR : Yes

Power

Power Consumption (in Operation) : 14W
Power Consumption (in Standby) : 0.15W
Power Requirements (frequency) : 60Hz
Power Requirements (voltage) : 120V

Weights (Approx.)

Unit : 2.8 lbs. (1.3kg)

Weights and Measurements

Dimensions (Approx.) : 14 1/4 × 7 7/8 × 1 3/4 in (360 mm × 199 mm × 43 mm) (width/depth/height incl. projecting parts)

General Features

Disc Drive : Yes (Precision Drive HD)
Region Code (BD) : A
Region Code (DVD) : 1
TV System Default Setting : 60Hz

Convenience Features

BRAVIA® Sync™ : Yes
Easy Setup : Yes
Child Lock : Yes

Inputs and Outputs

HDMI Output(s) : 1 (Rear)
USB Input(s) : 2 (1 Rear/ 1 Front)
Coaxial Audio Output(s) : 1 (Rear)
Ethernet Connection(s) : 1 (Rear), 1 (Rear) Coaxial Audio Ouput

Video Features

BD-ROM : Yes (480i/ 480p/ 720p/ 1080i/ 1080p (60Hz)) Yes (1080p (24Hz))
PhotoTV HD : Yes
Preset Picture mode Cinema Tuned : Yes (Standard/Brighter room/Theater Room)
Upscaling : Yes (720p/ 1080i/ 1080p) Yes (1080p (24Hz))

Network Features/SEN

Home Share (DLNA)

DMR (Dgital Media Renderer) : Yes (Video, Audio, Photo)
DMP (Dgital Media Player) : Yes (Video, Audio, Photo)

Sony Entertainment Network

3D Streaming : Yes
Live Streaming : Yes

Entertainment DB Browser (Gracenote etc.)

Cover Art : Yes
History Browse : Yes
Information Browse (with Web Browser) : Yes
Information Browse (within Gracenote) : Yes
Information Display : Yes
Qriocity Recommendation : Yes
Related Information : Yes(BD, DVD, CD, BIV)
Search Contents : Yes

BIVL

Live Streaming : Yes
Recom. : Yes
Subtitle : Yes

Web Browser

Java : Yes
Search : Yes
Streaming : Yes

Wi-fi

Wi-Fi Built in : Yes (2.4GHz)

Photo

Slide Show with Music

CD : Yes
USB : Yes

Supported Media

Video

AVCHD Disc Format Folder : Yes (BD, DVD, CD, USB, DLNA)

MPEG-1 Video/PS (.mpg .mpeg, .m2ts, .mts) : Yes (BD, DVD, CD, USB, DLNA)

MPEG-2 Video/PS, TS (.mpg.mpeg, .m2ts, .mts) : Yes (BD, DVD, CD, USB, DLNA)

MPEG-4 AVC (.mkv, .mp4, .m4v, .m2ts, .mts) : Yes (BD, DVD, CD, USB, DLNA)

WMV9 (.wmv, .asf) : Yes (BD, DVD, CD, USB, DLNA)

MPEG-4/AVC (.mov, 3gp, .3g2, .3gpp, .3gpp2) : Yes (BD, DVD, CD, USB)

Motion JPEG (.mov, .avi) : Yes (BD, DVD, CD, USB)

VC1 (.m2ts, .mts) : Yes (BD, DVD, CD, USB)

XVID : Yes (BD, DVD, CD, USB, DLNA)

Hybrid Disc

BD/CD : Yes (select in set-up menu)

BD/DVD : Yes (select in set-up menu)

HDDVD/DVD : Yes (DVD only)

Music

AAC (.aac, .mka) : Yes (BD, DVD, CD, USB)

AAC (.m4a) : Yes (BD, DVD, CD, USB)

Dolby Digital (.ac3, .mka) : Yes (BD, DVD, CD, USB)

FLAC (.flac, .fla) : Yes (BD, DVD, CD, USB)

LPCM (.mka) : Yes (BD, DVD, CD, USB)

LPCM (.wav) : Yes (BD, DVD, CD, USB, DLNA)

MP3 (.mka) : Yes (BD, DVD, CD, USB)

MP3 (.mp3) : Yes (BD, DVD, CD, USB, DLNA)

WMA9 Standard (.wma) : Yes (BD, DVD, CD, USB, DLNA)

Mixed Disc

BDAV/BDMV : Yes (BDMV)

BD-ROM

BD-Live (Profile2.0) : Yes

BD-ROM (SL/DL) : Yes

Bonus View (Profile1.1) : Yes

Photo

GIF (.gif) : Yes (BD, DVD, CD, USB, DLNA)

JPEG (.jpg, .jpeg) : Yes (BD, DVD, CD, USB, DLNA)

PNG (.png) : Yes (BD, DVD, CD, USB, DLNA)

MPO (.mpo) : Yes (BD, DVD, CD, USB)

CD

CD (CD-DA) : Yes

CD-R/-RW : Yes

SA-CD (SA-CD/CD) : Yes

BDMV

BD-RE : Yes (ver.2.0, SL/DL)

BD-R : Yes (ver.1.0, SL/DL)

BDAV

BD-RE : Yes (ver.2.0, SL/DL)

In the Box

Instruction Manual

Customer Registration Card

Remote Control (RMT-B119A)

Warranty Card

Batteries (2 AA)

Product Profile

Support

Find related product support and help in Sony eSupport

Product Warranty

Owner's Manual

Limited Warranty

ENERGY STAR

VIEW FOOTNOTES

The Sony Store Advantage

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Sony Card
Sony Financing

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ServSwitch Single DVI CATx KVM Extender, USB, Receiver

Receive single-head DVI-D signals from up to 400 feet away over CATx cable.

ACS4001A-R2-R

Extended Double Diamond™ Warranty Available (3 Additional Year)

Product Highlights

- For USB keyboard and mice.
- Extend keyboard, mouse, and DVI-D video signals up to 400 feet (121.9 m).
- Maximum resolution up to 1920 x 1200

Click the tabs below for more information on this product.

Details | Tech Specs | Accessories | Warranty | Similar Products

Description

ServSwitch Single DVI CATx KVM Extender, USB, Receiver

Quick Facts

- For USB keyboard and mice.
- Extend keyboard, mouse, and DVI-D video signals up to 400 feet (121.9 m).
- Maximum resolution up to 1920 x 1200

Further Details

The ServSwitch Single DVI CATx KVM Extenders, USB, extend the distance between local USB consoles and CPUs and remote USB consoles up to 400 feet (121.9 m) over CATx cable. Connect a keyboard, mouse, and DVI-D monitor directly to the computer on the transmitting end of the link and a KVM console with a DVI-D monitor on the receiving end. Dual access enables you to use your computer at either location. With more monitors connected to your computer, you can put a different applicaiton on each monitor to eliminate tedious switching between applications. Or if you have an application that uses lots of small windows, you can expand it across both monitors for more work space. This receiver is especially versatile when used with the ServSwitch DKM DVI-D KVM Switches (ACX0808, ACX0816, ACX0832, ACX1616, ACX1632).

Technical Specifications for ServSwitch Single DVI CATx KVM Extender, USB, Receiver:

Distance — 24 AWG: 400 ft. (121.9 m);
26 or 28 AWG: 200 ft. (61 m)
Resolution (Maximum) — 1920 x 1200 @ 60 Hz
CE Approval — Yes
RoHS — Yes
Connectors —Keyboard and mouse: (2) USB Type A F;
Monitor: (1) DVI-D F; Interconnect: (2) RJ-45
Power — 90–240 VAC, 47–63 Hz, autosensing, external, with IEC 320 connector and cord
Size — 1.1"H x 4"W x 5.6"D (2.8 x 10.2 x 14.2 cm)
Weight — 1.3 lb. (0.6 kg)

This product works with:
ServSwitch DKM DVI-D KVM Switches (ACX0808, ACX0816, ACX0832, ACX1616, ACX1632)

Questions? Contact our FREE Tech Support.

NOTE: Technical specification weight is the unit weight. It is not the packaged shipping weight. For shipping weight, please contact Black Box customer service at 877-877-2269.

Add to Cart

Price: $785.95

Quantity Available: 6

Quantity: 1

Warranty: 2 Year Included

Total: $785.95

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Shipping Info

In Stock - orders received before 5PM ET ship same day
Weight: 1.656 lbs.
HxWxD: 4.5 x 6.5 x 6.5 in.

What's more, we also have a 45 -day, no-questions-asked return policy. Simply call Customer Service for a Return Authorization (RA) number, return your product in new condition and in the original package, and receive a full refund.-day return policy

Best Price Guarantee

Tip: Click here to open a list of our current online promotions.

Help us improve this page.

DOUBLE DIAMOND™ EXTENDED WARRANTIES

Make the best warranty better!

Extend the Double Diamond Warranty on most Black Box products.

- Adds one or three years to a Double Diamond Warranty.
- Covers accidental damage—even power surge damage.
- No fuss; no questions asked.

learn more

DM-TX-201-C

CRESTRON DigitalMedia™

DigitalMedia 8G+™ Transmitter 201

- *DigitalMedia 8G+™ transmitter and multimedia interface*
- *Built-in 2x1 AV switcher with auto-switching and analog audio-breakaway*
- *QuickSwitch HD® technology achieves fast, reliable switching*
- *DM 8G+™ output supports up to 330 ft (100 m) cable length[1]*
- *Connects to a DM® switcher or receiver over one CAT5e or Crestron® DM 8G® cable[1]*
- *Supports HDBaseT™ Alliance specifications*
- *Provides HDMI® and RGB/component video inputs[3]*
- *Also supports DVI and DisplayPort Multimode sources[2]*
- *Handles HD video with HDCP*
- *Handles Dolby Digital®, DTS®, and uncompressed 7.1 linear PCM audio*
- *Includes mini-TRS stereo analog audio input*
- *Includes a local HDMI monitor output*
- *Detects and reports detailed video and audio input information*
- *Performs automatic AV signal format management via EDID*
- *Includes USB HID device port for connection to a computer*
- *Provides a 10/100 Ethernet connection*
- *Enables device control via CEC and Ethernet*
- *Allows quick, easy setup and diagnostics*
- *Low-profile surface-mount design*
- *Powered over the DM connection or local power pack (included)[4]*

The DM-TX-201-C is a DM 8G+™ transmitter and switcher that provides a simple interface for computers and high-definition AV sources as part of a complete Crestron® DigitalMedia™ system. In addition to DM 8G+, it is also compatible with HDBaseT™ specifications, allowing it to be connected directly to the input of an HDBaseT compliant display device. Thin and compact, the DM-TX-201-C is ideal for use at a lectern, conference table, or any remote location in a boardroom, classroom, auditorium, or residence. It connects to the head end or display location using a single CAT5e or Crestron DM 8G® cable, providing HDMI®, VGA, and analog audio inputs, plus an Ethernet port and USB HID device port for a total connectivity solution.

DigitalMedia 8G+™

As the leader in HDMI and control system technologies, Crestron developed DigitalMedia (DM®) to deliver the first complete HD AV distribution system to take HDMI to a higher level. DigitalMedia allows virtually any mix of HDMI and other AV sources to be distributed throughout a home, office, school, or virtually any other facility.

DigitalMedia 8G+ is the latest generation of DM, providing a true one-wire transport for moving high-definition video, audio, and Ethernet over low-cost twisted-pair cable without any compression or repeaters. Just one 8-conductor twisted-pair cable is required, supporting distances up to 330 feet (100 m) using Crestron DM 8G Cable or CAT5e.[1]

HDBaseT™

Crestron DigitalMedia 8G+ technology is designed using HDBaseT Alliance specifications, ensuring interoperability with third-party HDBaseT products. Via its DM 8G+ output, the DM-TX-201-C can be connected directly to any HDBaseT compliant device without requiring a DM receiver. HDBaseT connectivity through the DM-TX-201-C converges uncompressed full HD digital video, audio, Ethernet, power and control signals through a single CAT5e or CAT6 cable over distances up to 328 ft (100m).

Multimedia Computer/AV Interface

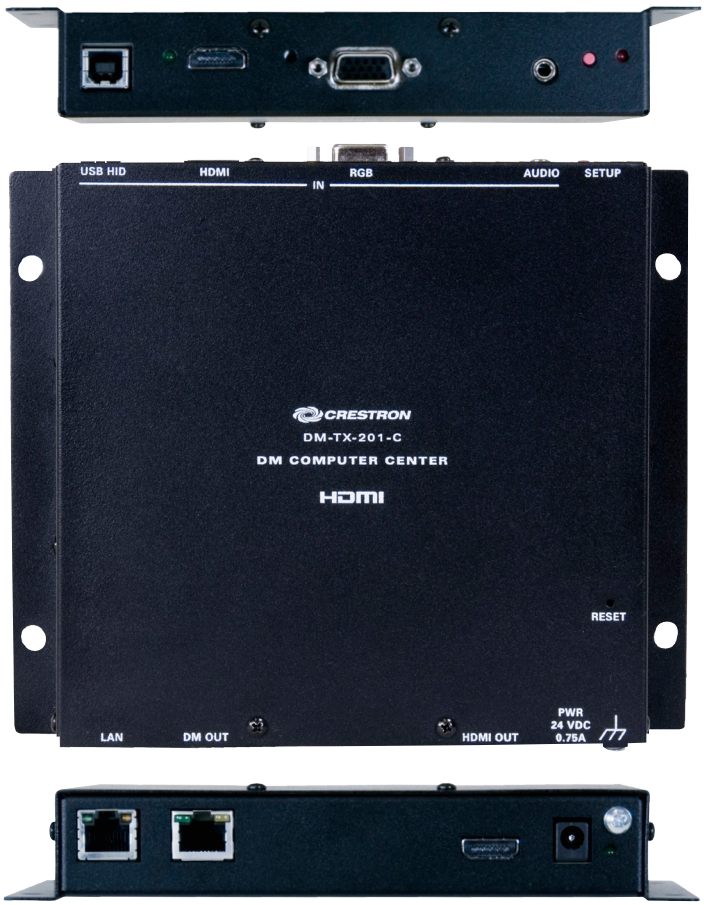
The DM-TX-201-C provides simple switching between two inputs. The inputs can be configured to switch automatically or be controlled through a Crestron control system. Inputs include:

- **HDMI —** Supports HD 1080p60 video and WUXGA computer signals with HDCP and multi-channel lossless audio. Also handles DVI and DisplayPort Multimode signals using an appropriate adapter or interface cable[2].
- **RGB —** This VGA type input handles analog RGB signals up to WUXGA 1920x1200 pixels, as well as analog video up to 1080p60[3]. A 1/8" (3.5mm) stereo audio input is included to accommodate analog audio signals from an unbalanced line-level source or headphone output.

Note: Audio breakaway capability enables the analog audio input to be used with either video input.

A single cable connects the DM-TX-201-C to a DM switcher or receiver, or to an HDBaseT device, transporting video, audio, control, networking, and power signals all through one simple RJ45 connection.[1,4] Used with a single DM 8G+ Receiver/Room Controller and optional Crestron Control System, the DM-TX-201-C affords a simple solution for extending a multimedia computer or AV signal to a single display up to 330 feet (100 m) away[1]. As part of a larger system using a DM-MD series switcher, multiple DM-TX-201-Cs may be installed to enable the distribution of several sources at different locations to feed multiple displays throughout any room or larger facility.

DM-TX-201-C DigitalMedia 8G+™ Transmitter 201



DM-TX-201-C – Top, Front, and Bottom Views

In addition to its DM 8G+ output, there is also an HDMI output provided to feed a local HDMI or DVI monitor, eliminating the need for an extra outboard distribution amp or other hardware.

LAN Connectivity

Along with high-definition AV and control, DigitalMedia also integrates high-speed Ethernet networking for a total signal distribution solution. The DM-TX-201-C includes a 10/100 Ethernet port, providing a convenient LAN connection for a local network device.

Keyboard/Mouse Extender

The DM-TX-201-C also functions as a keyboard/mouse extender, providing a USB port which connects to the source device (i.e. computer or other USB HID-compliant host), allowing it to be controlled by a mouse or keyboard located in another room, or at a presentation lectern, conference table, or some other remote location.

EDID Format Management

The DM-TX-201-C allows for management of the EDID (Extended Display Identification Data) information that passes between the display devices and input sources in the system. Using Crestron Toolbox™ software, the format and resolution capabilities of each device can be assessed and managed through the DM-TX-201-C, ensuring reliable operation by instructing sources to output only the resolutions and formats that can be handled by the displays and system wiring.

CEC Embedded Device Control

The primary objective of every Crestron system is to enable precisely the control desired for a seamless user experience. DigitalMedia provides an alternative to conventional IR and RS-232 device control by harnessing the CEC (Consumer Electronics Control) signal embedded in HDMI. Through its connection to the control system, the DM-TX-201-C provides a gateway for controlling the connected source device right through the HDMI connection, potentially eliminating the need for any dedicated control wires or IR emitters. Through proper CEC signal management, DigitalMedia allows you to take control of each device in the system as you like.

Compact and Versatile

The DM-TX-201-C is designed to be mounted to a flat surface or placed on a shelf. It is compact enough to fit discreetly inside a presentation lectern or beneath a table, and can even be attached to a rack rail in the back of an equipment cabinet. An array of indicators on the DM-TX-201-C provides for easy setup and troubleshooting.

A Digital Upgrade for Legacy Systems

The DM-TX-201-C also affords a perfect signal converter for integrating DigitalMedia with analog-based systems like Crestron MPS, QuickMedia®, and the CEN-RGBHV Series. A simple HD15 VGA cable connected between the output of an MPS system and the input of the DM-TX-201-C allows every RGB, component, S-Video, and composite video input on the MPS to be converted to DigitalMedia[3]. Analog audio is converted similarly through an unbalanced stereo audio cable. The DM-TX-201-C's HDMI input may also be used to expand the input capabilities of the MPS system to handle digital AV sources.

Please refer to the DigitalMedia Resources Webpage at http://www.crestron.com/dmresources/ *for additional design tools and reference documents.*

SPECIFICATIONS

Video

Switcher: 2x1 combination digital/analog switch, Crestron QuickSwitch HD®

Input Signal Types: HDMI®, DVI[2], DisplayPort Multimode[2], RGB, component (YPbPr)[3], S-Video (Y/C)[3], composite[3]

Output Signal Types: DM 8G+™ (DigitalMedia™ over one CAT5e twisted-pair copper wire)[1], HDBaseT™, HDMI, DVI[2]

Formats: HDMI, DVI, HDCP content protection support, computer up to UXGA/WUXGA, HD up to 1080p60, NTSC or PAL

Input Resolutions, HDMI & DVI, Progressive: 640x480@60Hz, 720x480@60Hz (480p), 720x576@50Hz (576p), 800x600@60Hz, 848x480@60Hz, 852x480@60Hz, 854x480@60Hz, 1024x768@60Hz, 1024x852@60Hz, 1024x1024@60Hz, 1280x720@50Hz (720p50), 1280x720@60Hz (720p60), 1280x768@60Hz, 1280x800@60Hz, 1280x960@60Hz, 1280x1024@60Hz, 1360x768@60Hz, 1365x1024@60Hz, 1366x768@60Hz, 1400x1050@60Hz, 1440x900@60Hz, 1600x900@60Hz, 1600x1200@60Hz, 1680x1050@60Hz, 1920x1080@24Hz (1080p24), 1920x1080@25Hz (1080p25), 1920x1080@50Hz (1080p50), 1920x1080@60Hz (1080p60), 1920x1200@60Hz, 2048x1080@24Hz, 2048x1152@60Hz, plus any other resolution allowed by HDMI up to 165MHz pixel clock

DM-TX-201-C DigitalMedia 8G+™ Transmitter 201

Input Resolutions, HDMI & DVI, Interlaced: 720x480@30Hz (480i), 720x576@25Hz (576i), 1920x1080@25Hz (1080i25), 1920x1080@30Hz (1080i30), plus any other resolution allowed by HDMI up to 165MHz pixel clock

Input Resolutions, RGB: 640x480@60Hz, 720x480@60Hz (480p), 720x576@50Hz (576p), 800x600@60Hz, 848x480@60Hz, 1024x768@60Hz, 1280x720@50Hz (720p50), 1280x720@60Hz (720p60), 1280x768@60Hz, 1280x800@60Hz, 1280x960@60Hz, 1280x1024@60Hz, 1360x768@60Hz, 1366x768@60Hz, 1400x1050@60Hz, 1440x900@60Hz, 1600x1200@60Hz, 1680x1050@60Hz, 1920x1080@50Hz (1080p50), 1920x1080@60Hz (1080p60), 1920x1200@60Hz, 2048x1152@60Hz

Input Resolutions, Component[3]: 480i, 576i, 480p, 576p, 720p50, 720p60, 1080p24, 1080i25 (1125 lines), 1080i30, 1080p30, 1080p50 (1125 lines), 1080p60

Input Resolutions, Composite and S-Video[3]: 480i, 576i

Output Resolutions: Matched to inputs

Analog-To-Digital Conversion: 10-bit 165 MHz per each of 3 channels

Audio

Switcher: 2x1 combination digital/analog switch

Input Signal Types: HDMI, DisplayPort Multimode[2], analog stereo

Output Signal Types: DM 8G+, HDBaseT, HDMI

Formats, HDMI: Dolby Digital®, Dolby Digital EX, DTS®, DTS-ES, DTS 96/24, Up to 8ch PCM

Formats, Analog: Stereo 2-channel

Analog-To-Digital Conversion: 24-bit 48 kHz

Performance (analog): Frequency Response: 20Hz to 20kHz ±0.75dB;
S/N Ratio: >90dB, 20Hz to 20kHz A-weighted;
THD+N: <0.05% @ 1kHz;
Stereo Separation: >90dB

Communications

DigitalMedia: DM 8G+, HDCP management, EDID format management, CEC, PoDM, HDBaseT compliant

Ethernet: 10/100 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, DHCP

USB: Supports USB HID class devices

Connectors

LAN: (1) 8-wire RJ45 female, shielded;
10BaseT/100BaseTX Ethernet port

DM OUT: (1) 8-pin RJ45 female, shielded;
DM 8G+ output, HDBaseT compliant;
PoDM and PoH PD (Powered Device) port[4];
Connects to the DM 8G+ input of a DM switcher, receiver/room controller, or other DM device, or to a HDBaseT device, via CAT5e or Crestron DM-CBL-8G cable[1]

HDMI OUT: (1) 19-pin Type A HDMI female;
HDMI digital video/audio output;
Also supports DVI[2]

PWR 24VDC 0.75A: (1) 2.1 x 5.5 mm DC power connector;
24 Volt DC power input;
PW-2407WU power pack included

Ground: (1) 6-32 screw, chassis ground lug

USB HID: (1) USB Type B female;
USB 2.0 device port for connection to the USB host interface of a computer or other USB HID-compliant host

HDMI IN: (1) 19-pin Type A HDMI female;
HDMI digital video/audio input;
Also supports DVI and DisplayPort Multimode[2]

RGB IN: (1) DB15HD female;
RGB (VGA), component, S-Video, or composite video input[3];
Formats: RGBHV, RGBS, RGsB, YPbPr, Y/C, NTSC, PAL;
Input Levels: 0.5 to 1.5 Vp-p with built-in DC restoration;
Input Impedance: 75 Ohms;
Sync Input Type: Autodetect RGBHV, RGBS, RGsB, YPbPr;
Sync Input Level: 3 to 5 Vp-p;
Sync Input Impedance: 1k Ohms

AUDIO IN: (1) 3.5mm TRS mini phone jack;
Unbalanced stereo line-level audio input;
Input Level: 2 Vrms maximum;
Input Impedance: 10k Ohms

Controls & Indicators

LAN: (2) LEDs, green LED indicates Ethernet link status, amber LED indicates Ethernet activity

DM OUT: (2) LEDs, green LED indicates DM link status, amber LED indicates video and HDCP signal presence

PWR: (1) green LED, indicates operating power supplied via local power supply, PoDM, or PoH

HDMI IN: (1) green LED, indicates HDMI input is selected

RGB IN: (1) green LED, indicates RGB input is selected

SETUP: (1) red LED and (1) miniature recessed pushbutton for Ethernet setup

RESET: (1) miniature recessed pushbutton for hardware reset

Power Requirements

Power Pack: 0.75 Amps @ 24 Volts DC;
100-240 Volts AC, 50/60 Hz power pack, model PW-2407WU included

Power over DM (PoDM): PoDM PD (Powered Device), capable of being powered by a PoDM PSE (Power Sourcing Equipment), conforms to IEEE 802.3af (802.3at Type 1) Class 3[5]

Power over HDBaseT (PoH): PoH PD (Powered Device), capable of being powered by a PoH PSE (Power Sourcing Equipment), conforms to IEEE 802.3af (802.3at Type 1) Class 3[5]

Note: May be powered via power pack or PoDM/PoH, not both.

DM-TX-201-C DigitalMedia 8G+™ Transmitter 201

Environmental

Temperature: 32° to 104°F (0° to 40°C)
Humidity: 10% to 90% RH (non-condensing)
Heat Dissipation: 30 BTU/Hr

Enclosure

Chassis: Metal, black finish, with (2) integral mounting flanges, vented sides
Mounting: Freestanding, surface mount, or attach to a single rack rail

Dimensions

Height: 6.47 in (165 mm)
Width: 7.36 in (187 mm)
Depth: 1.24 in (32 mm)

Weight

25.4 oz (721 g)

MODELS & ACCESSORIES

Available Models

DM-TX-201-C: DigitalMedia 8G+™ Transmitter 201

Included Accessories

PW-2407WU: Wall Mount Power Pack 24VDC, 0.75A, Universal (Qty. 1 included)

Available Accessories

DM-CBL-8G-NP: DigitalMedia 8G™ Cable, non-plenum
DM-CBL-8G-P: DigitalMedia 8G™ Cable, plenum
DM-8G-CONN-100: DigitalMedia 8G™ Cable Connector, 100-Pack
DM-8G-CRIMP: Crimping Tool for DM-8G-CONN
CBL Series: Crestron® Certified Interface Cables
MP-WP Series: Media Presentation Wall Plates
MPI-WP Series: Media Presentation Wall Plates - International Version

Notes:

1. For DM 8G+ wiring, use Crestron DM-CBL-8G DigitalMedia 8G Cable, Crestron DM-CBL DigitalMedia Cable, Crestron DM-CBL-D DigitalMedia D Cable, or generic CAT5e (or better) UTP or STP. Maximum wire length for DM 8G+ is 330 ft (100 m) between devices. Shielded cable and connectors are recommended to safeguard against unpredictable environmental electrical noise which may impact performance at resolutions above 1080p. Refer to the Crestron DigitalMedia Design Guide, Doc. #4546 for complete system design guidelines. DM 8G+ is also compatible with HDBaseT Alliance specifications for connecting to HDBaseT compliant equipment. All wire and cables sold separately.
2. HDMI requires an appropriate adapter or interface cable to accommodate a DVI or DisplayPort Multimode signal. CBL-HD-DVI interface cables available separately.
3. The RGB input can actually accept component, composite, and S-Video signals via direct interface to Crestron MPS Series products, or through an appropriate adapter (not included). However, input sync detection is not provided for composite or S-Video signal types through the RGB connection.
4. Receiving Power over DM (PoDM) or Power over HDBaseT (PoH) requires connection to a switcher or other equipment that has a PoDM or PoH PSE (Power Sourcing Equipment) port.
5. The DM-TX-201-C cannot be powered over Ethernet, and its DM OUT port should never be connected directly to an Ethernet network or device. However, an 802.3af or 802.3at compliant PoE PSE may be used as a PoDM power source for the DM-TX-201-C via a mutual connection to a DMC-C or DMC-C-DSP DM Switcher Input Card. For HDBaseT systems, refer to the HDBaseT receiver device for its PoH power sourcing capabilities.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

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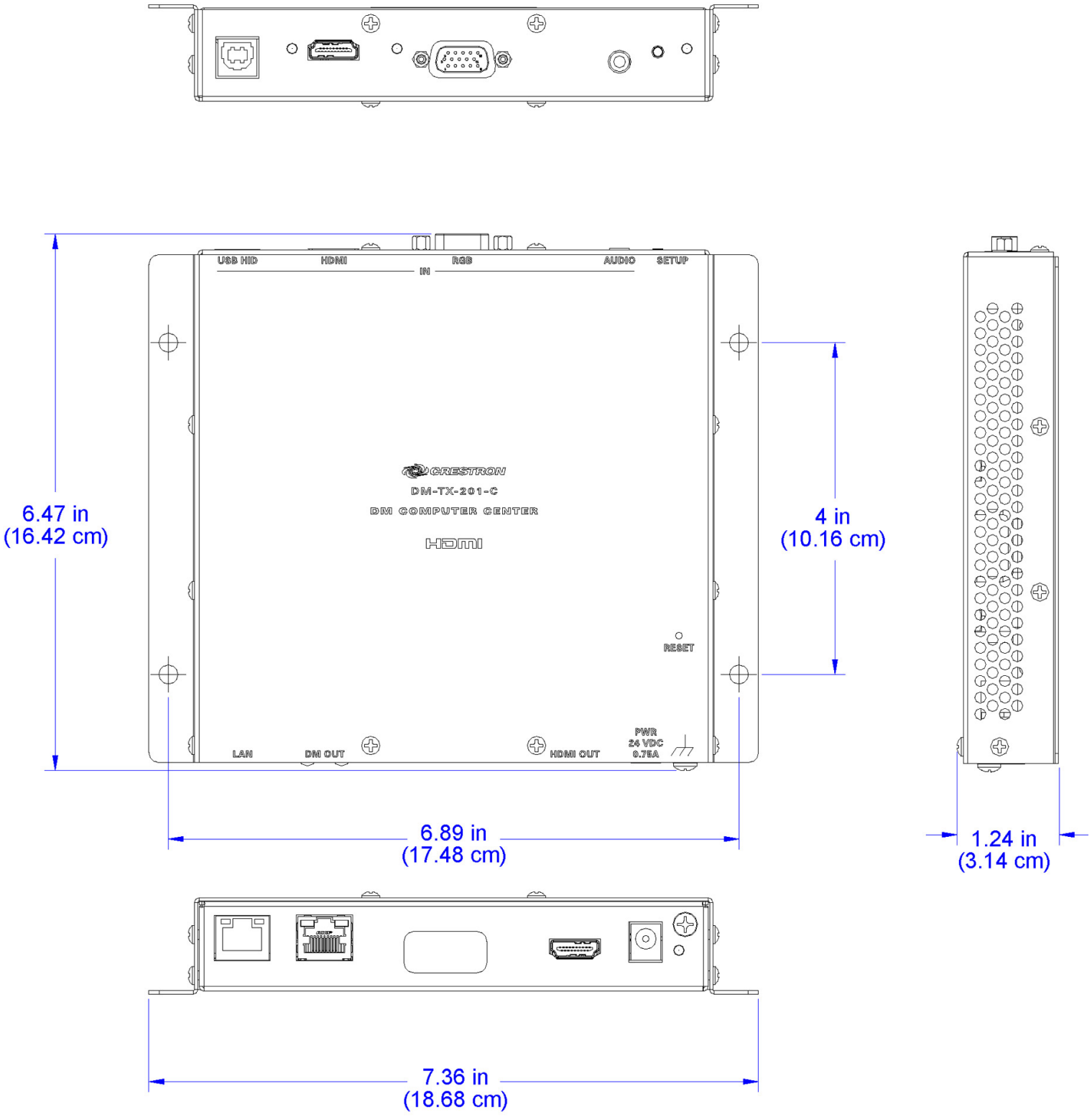
DM-TX-201-C DigitalMedia 8G+™ Transmitter 201



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Specifications subject to change without notice. Revised 03/11/13

DM-TX-401-C

DigitalMedia 8G+™ Transmitter 401

- *DigitalMedia 8G+™ transmitter and multimedia interface*
- *Built-in 4x1 AV switcher with front panel input selection, auto-switching, and analog audio-breakaway*
- *QuickSwitch HD® technology achieves fast, reliable switching*
- *DM 8G+™ output supports up to 330 ft (100 m) cable length[2]*
- *Connects to a DM® switcher or receiver over one CAT5e or Crestron® DM 8G® cable[2]*
- *Supports HDBaseT™ Alliance specifications*
- *Provides DisplayPort, HDMI®, RGB/component, and composite video inputs[4]*
- *Also supports DVI sources[3]*
- *Handles HD video with Deep Color, 3D, and HDCP*
- *Handles Dolby® TrueHD, DTS-HD Master Audio™, and uncompressed 7.1 linear PCM audio*
- *Includes RCA and mini-TRS stereo analog audio inputs*
- *Detects and reports detailed video and audio input information*
- *Performs automatic AV signal format management via EDID*
- *Includes advanced analog video processing and time base correction*
- *Includes 10/100 Ethernet and USB HID keyboard/mouse ports*
- *Enables device control via CEC, IR, RS-232, and Ethernet*
- *Allows quick, easy setup and diagnostics*
- *Single-space, 1/2-width 19-inch rack-mountable[1]*
- *Powered over the DM connection or local power pack (included)[5]*

The DM-TX-401-C is a DM 8G+™ transmitter and switcher that offers a versatile interface for computers and high-definition AV sources as part of a complete Crestron® DigitalMedia™ system. In addition to DM 8G+, it is also compatible with HDBaseT™ specifications, allowing it to be connected directly to the input of an HDBaseT compliant display device. Compact and rack-mountable[1], the DM-TX-401-C connects to the head end or display location using a single CAT5e or Crestron DM 8G® cable. It provides DisplayPort, HDMI®, VGA, and analog video and audio inputs, plus Ethernet, RS-232, and IR control ports, and a USB HID host port for a total connectivity solution.

Installed in a stationary podium or equipment rack, the DM-TX-401-C provides an ideal solution for integrating rack-mounted sources, switchers, and AV receivers into the DigitalMedia system. Mounted in a movable lectern or AV cart, or just as a portable device, it affords a simple means for connecting laptops, cameras, and other portable sources at any number of wall plates and floor boxes throughout a conference center or auditorium, requiring just a single DM 8G+ connection (MP-WP181-C or MPI-WP181-C) at each location.

DigitalMedia 8G+™

As the leader in HDMI and control system technologies, Crestron developed DigitalMedia (DM®) to deliver the first complete HD AV distribution system to take HDMI to a higher level. DigitalMedia allows virtually any mix of HDMI and other AV sources to be distributed throughout a home, office, school, or virtually any other facility.

DigitalMedia 8G+ is the latest generation of DM, providing a true one-wire transport for moving high-definition video, audio, and Ethernet over low-cost twisted-pair cable without any compression or repeaters. Engineered for ultra high-bandwidth and ultimate scalability, DM 8G+ handles uncompressed video beyond high-definition with support for HDCP, Deep Color, and 3D. Audio capabilities include support for high-bitrate 7.1 audio formats like Dolby® TrueHD and DTS-HD Master Audio™ as well as uncompressed linear PCM. All signals are transported over one 8-conductor twisted-pair cable, supporting distances up to 330 feet (100 m) using Crestron DM 8G Cable or CAT5e.[2]

HDBaseT™

Crestron DigitalMedia 8G+ technology is designed using HDBaseT Alliance specifications, ensuring interoperability with third-party HDBaseT products. Via its DM 8G+ output, the DM-TX-401-C can be connected directly to any HDBaseT compliant device without requiring a DM receiver. HDBaseT connectivity through the DM-TX-401-C converges uncompressed full HD digital video, audio, Ethernet, power and control signals through a single CAT5e or CAT6 cable over distances up to 328 ft (100m).

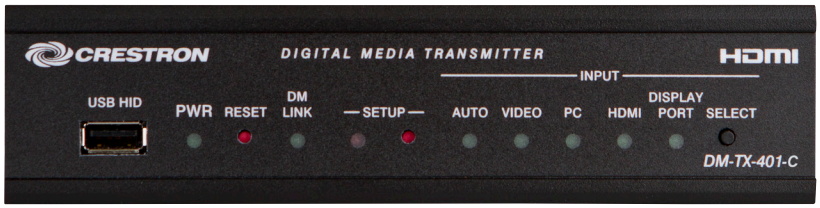
Multimedia Computer/AV Interface

The DM-TX-401-C provides simple switching among four inputs. Inputs can be selected manually from the front panel, through a Crestron control system, or automatically. Inputs include:

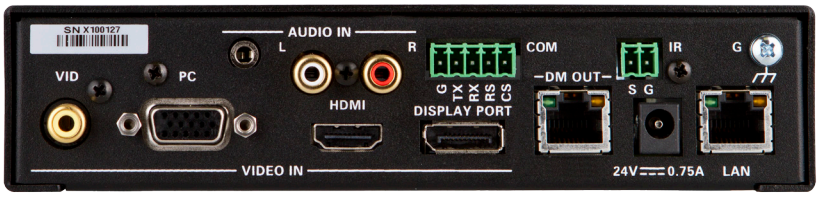
- **DisplayPort —** Accommodates Apple® laptops and other computers with this type of interface.
- **HDMI —** Supports HD 1080p60 video and WUXGA computer signals with HDCP, Deep Color, 3D, and multi-channel HD lossless audio. Also handles DVI signals using an appropriate adapter or interface cable[3].
- **PC —** This VGA type input handles analog RGB signals up to WUXGA 1920x1200 pixels, as well as component video up to 1080p60[4]. A 1/8" (3.5mm) stereo audio input is included to accommodate analog audio signals from an unbalanced line-level source or headphone output.
- **Video —** Accepts the connection of an NTSC or PAL composite video source with stereo unbalanced line-level audio.

Note: Audio breakaway capability enables either analog audio input to be used with any video input.

DM-TX-401-C DigitalMedia 8G+™ Transmitter 401



DM-TX-401-C – Front View



DM-TX-401-C – Rear View

A single cable connects the DM-TX-401-C to a DM switcher or receiver, or to an HDBaseT device, transporting video, audio, control, networking, and power signals all through one simple RJ45 connection.[2,5] Used with a single DM 8G+ Receiver/Room Controller and optional Crestron Control System, the DM-TX-401-C affords a simple solution for extending a multimedia computer or AV signal to a single display up to 330 feet (100 m) away[2]. As part of a larger system using a DM-MD series switcher, multiple DM-TX-401-Cs may be deployed to enable the distribution of several sources at different locations to feed multiple displays throughout any room or larger facility.

Advanced Analog Video Processing

Via the PC and Video inputs, the DM-TX-401-C employs advanced analog video processing with anti-aliasing and 3D comb filtering to ensure the reliable distribution of analog VGA and video sources. Built-in time base correction is also included to ensure optimal results for use with video tape players.

LAN Connectivity

Along with high-definition AV and control, DigitalMedia also integrates high-speed Ethernet networking for a total signal distribution solution. The DM-TX-401-C includes a 10/100 Ethernet port, providing a convenient LAN connection for a local network device.

Embedded Device Control

The primary objective of every Crestron system is to enable precisely the control desired for a seamless user experience. The DM-TX-401-C includes built-in IR, RS-232, and Ethernet control ports to allow programmable control of the devices connected to it. But, it can also provide an alternative to such conventional control methods by harnessing the CEC (Consumer Electronics Control) signal embedded in HDMI. Through its connection to the control system, the DM-TX-401-C provides a gateway for controlling the connected source device right through the HDMI connection, potentially eliminating the need for any dedicated control wires or IR emitters.

Keyboard/Mouse Extender

The DM-TX-401-C functions as a keyboard/mouse extender, allowing a USB HID-compliant keyboard and/or mouse to be connected to the front panel and used to control a computer or other component located at the central equipment rack or some other location.

EDID Format Management

The DM-TX-401-C allows for management of the EDID (Extended Display Identification Data) information that passes between the display devices and input sources in the system. Using Crestron Toolbox™ software, the format and resolution capabilities of each device can be assessed and managed through the DM-TX-401-C, ensuring reliable operation by instructing sources to output only the resolutions and formats that can be handled by the displays and system wiring.

Please refer to the DigitalMedia Resources Webpage at http://www.crestron.com/dmresources/ for additional design tools and reference documents.

SPECIFICATIONS

Video

Switcher: 4x1 combination digital/analog switch, Crestron QuickSwitch HD®

Input Signal Types: DisplayPort, HDMI®, DVI[3], RGB, component (YPbPr)[4], S-Video (Y/C)[4], composite

Output Signal Types: DM 8G+™ (DigitalMedia™ over one CAT5e twisted-pair copper wire), HDBaseT™ [2]

Formats: DisplayPort, HDMI w/Deep Color & 3D, DVI, HDCP content protection support, computer up to UXGA/WUXGA, HD up to 1080p60, NTSC or PAL

Input Resolutions, DisplayPort, Progressive: 640x480@60Hz, 720x480@60Hz (480p), 720x576@50Hz (576p), 800x600@60Hz, 848x480@60Hz, 852x480@60Hz, 854x480@60Hz, 1024x768@60Hz, 1024x852@60Hz, 1024x1024@60Hz, 1280x720@50Hz (720p50), 1280x720@60Hz (720p60), 1280x768@60Hz, 1280x800@60Hz, 1280x960@60Hz, 1280x1024@60Hz, 1360x768@60Hz,

1365x1024@60Hz, 1366x768@60Hz, 1400x1050@60Hz, 1440x900@60Hz, 1600x900@60Hz, 1600x1200@60Hz, 1680x1050@60Hz, 1920x1080@50Hz (1080p50), 1920x1080@60Hz (1080p60), 1920x1200@60Hz, 2048x1152@60Hz, plus any other resolution allowed by DisplayPort up to 165MHz pixel clock

Input Resolutions, DisplayPort, Interlaced: 1920x1080@25Hz (1080i25), 1920x1080@30Hz (1080i30), plus any other resolution allowed by DisplayPort up to 165MHz pixel clock

Input Resolutions, HDMI & DVI, Progressive: 640x480@60Hz, 720x480@60Hz (480p), 720x576@50Hz (576p), 800x600@60Hz, 848x480@60Hz, 852x480@60Hz, 854x480@60Hz, 1024x768@60Hz, 1024x852@60Hz, 1024x1024@60Hz, 1280x720@50Hz (720p50), 1280x720@60Hz (720p60), 1280x768@60Hz, 1280x800@60Hz, 1280x960@60Hz, 1280x1024@60Hz, 1360x768@60Hz, 1365x1024@60Hz, 1366x768@60Hz, 1400x1050@60Hz, 1440x900@60Hz, 1600x900@60Hz, 1600x1200@60Hz, 1680x1050@60Hz, 1920x1080@24Hz (1080p24), 1920x1080@25Hz (1080p25), 1920x1080@50Hz (1080p50), 1920x1080@60Hz (1080p60), 1920x1200@60Hz, 2048x1080@24Hz, 2048x1152@60Hz, plus any other resolution allowed by HDMI up to 165MHz pixel clock

Input Resolutions, HDMI & DVI, Interlaced: 720x480@30Hz (480i), 720x576@25Hz (576i), 1920x1080@25Hz (1080i25), 1920x1080@30Hz (1080i30), plus any other resolution allowed by HDMI up to 165MHz pixel clock

Input Resolutions, RGB: 640x480@60Hz, 720x480@60Hz (480p), 720x576@50Hz (576p), 800x600@60Hz, 848x480@60Hz, 1024x768@60Hz, 1280x720@50Hz (720p50), 1280x720@60Hz (720p60), 1280x768@60Hz, 1280x800@60Hz, 1280x960@60Hz, 1280x1024@60Hz, 1360x768@60Hz, 1366x768@60Hz, 1400x1050@60Hz, 1440x900@60Hz, 1600x1200@60Hz, 1680x1050@60Hz, 1920x1080@50Hz (1080p50), 1920x1080@60Hz (1080p60), 1920x1200@60Hz, 2048x1152@60Hz

Input Resolutions, Component[4]: 480i, 576i, 480p, 576p, 720p50, 720p60, 1080p24, 1080i25 (1125 lines), 1080i30, 1080p30, 1080p50 (1125 lines), 1080p60

Input Resolutions, Composite and S-Video[4]: 480i, 576i

Output Resolutions: Matched to inputs

Analog-To-Digital Conversion: 12-bit 170 MHz per each of 3 channels

Audio

Switcher: 4x1 combination digital/analog switch

Input Signal Types: HDMI, DisplayPort, analog stereo

Output Signal Type: DM 8G+, HDBaseT

Formats, DisplayPort: Dolby Digital®, Dolby Digital EX, DTS®, DTS-ES, DTS 96/24, Up to 8ch PCM

Formats, HDMI: Dolby Digital, Dolby Digital EX, Dolby Digital Plus, Dolby® TrueHD, DTS, DTS-ES, DTS 96/24, DTS-HD High Res, DTS-HD Master Audio™, Up to 8ch PCM

Formats, Analog: Stereo 2-channel

Analog-To-Digital Conversion: 24-bit 48 kHz

Input Level Compensation (analog): ±10 dB

Performance (analog): Frequency Response: 20Hz to 20kHz ±0.75dB;
S/N Ratio: >90dB, 20Hz to 20kHz A-weighted;
THD+N: <0.05% @ 1kHz;
Stereo Separation: >90dB

Communications

DigitalMedia: DM 8G+, HDCP management, EDID format management, CEC, PoDM, HDBaseT compliant

Ethernet: 10/100 Mbps, auto-switching, auto-negotiating, auto-discovery, full/half duplex, DHCP

USB: Supports USB HID class devices

Connectors

VID: (1) RCA female, composite video input;
Input Level: 1 Vp-p nominal;
Input Impedance: 75 Ohms nominal

PC: (1) DB15HD female;
RGB (VGA), component, S-Video, or composite video input[4];
Formats: RGBHV, RGBS, RGsB, YPbPr, Y/C, NTSC, PAL;
Input Levels: 0.5 to 1.5 Vp-p with built-in DC restoration;
Input Impedance: 75 Ohms;
Sync Input Type: Autodetect RGBHV, RGBS, RGsB, YPbPr;
Sync Input Level: 3 to 5 Vp-p;
Sync Input Impedance: 510 Ohms

AUDIO IN: (1) 3.5mm TRS mini phone jack;
Unbalanced stereo line-level audio input;
Input Level: 2 Vrms maximum;
Input Impedance: 10k Ohms

AUDIO IN L, R: (2) RCA female;
Unbalanced stereo line-level audio input;
Input Level: 2 Vrms maximum;
Input Impedance: 10k Ohms

HDMI: (1) 19-pin Type A HDMI female;
HDMI digital video/audio input;
Also supports DVI[3]

DISPLAY PORT: (1) 20-pin DisplayPort female;
DisplayPort digital video/audio input

COM: (1) 5-pin 3.5mm detachable terminal block;
Bidirectional RS-232 port;
Up to 115.2k baud, hardware and software handshaking support

IR: (1) 2-pin 3.5mm detachable terminal block, IR/Serial port;
IR output up to 1.1 MHz;
1-way serial TTL/RS-232 (0-5 Volts) up to 19200 baud

DM OUT: (1) 8-pin RJ45 female, shielded;
DM 8G+ output, HDBaseT compliant;
PoDM and PoH PD (Powered Device) port[5] Connects to the DM 8G+ input of a DM switcher, receiver/room controller, or other DM device, or to a HDBaseT device, via CAT5e or Crestron DM-CBL-8G cable[2]

24VDC 0.75A: (1) 2.1 x 5.5 mm DC power connector;
24 Volt DC power input;
PW-2407WU power pack included

LAN: (1) 8-wire RJ45 female;
10Base-T/100Base-TX Ethernet port

G: (1) 6-32 screw, chassis ground lug

USB HID (front): (1) USB Type A female;
USB 2.0 host port for connection of a mouse/keyboard or other USB HID-compliant device

Controls & Indicators

PWR: (1) green LED, indicates operating power supplied via local power supply, PoDM, or PoH
RESET: (1) miniature recessed pushbutton for hardware reset
DM LINK: (1) green LED, indicates DM link status
SETUP: (1) red LED and (1) miniature recessed pushbutton for Ethernet setup
INPUT AUTO, VIDEO, PC, HDMI, DISPLAY PORT: (5) green LEDs, indicate which input is selected or if auto-switch mode is active
INPUT SELECT: (1) pushbutton for selecting inputs or activating auto-switch mode
DM OUT (rear): (2) LEDs, green LED indicates DM link status, amber LED indicates video and HDCP signal presence
LAN (rear): (2) LEDs, green LED indicates Ethernet link status, amber LED indicates Ethernet activity

Power Requirements

Power Pack: 0.75 Amps @ 24 Volts DC;
100-240 Volts AC, 50/60 Hz power pack, model PW-2407WU included

Power over DM (PoDM): PoDM PD (Powered Device), capable of being powered by a PoDM PSE (Power Sourcing Equipment), conforms to IEEE 802.3af (802.3at Type 1) Class 3[6]

Power over HDBaseT (PoH): PoH PD (Powered Device), capable of being powered by a PoH PSE (Power Sourcing Equipment), conforms to IEEE 802.3af (802.3at Type 1) Class 3[6]

Note: May be powered via power pack or PoDM/PoH, not both.

Environmental

Temperature: 32° to 104°F (0° to 40°C)
Humidity: 10% to 90% RH (non-condensing)
Heat Dissipation: 45 BTU/Hr

Enclosure

Chassis: Metal, black finish, vented top and sides
Faceplate: Metal, black finish with polycarbonate label overlay
Mounting: Freestanding or 1U, 1/2-width 19-inch rack-mountable (adhesive feet attached, ST-RMK rack kit sold separately)

Dimensions

Height: 1.76 in (45 mm)
Width: 7.07 in (180 mm)
Depth: 8.75 in (223 mm)

Weight

2.0 lb (0.9 kg)

MODELS & ACCESSORIES

Available Models

DM-TX-401-C: DigitalMedia 8G+™ Transmitter 401

Included Accessories

PW-2407WU: Wall Mount Power Pack 24VDC, 0.75A, Universal (Qty. 1 included)

Available Accessories

ST-RMK: Rack Mount Kit for all Crestron 1/2-space modules
DM-CBL-8G-NP: DigitalMedia 8G™ Cable, non-plenum
DM-CBL-8G-P: DigitalMedia 8G™ Cable, plenum
DM-8G-CONN-100: DigitalMedia 8G™ Cable Connector, 100-Pack
DM-8G-CRIMP: Crimping Tool for DM-8G-CONN
CBL Series: Crestron® Certified Interface Cables
MP-WP Series: Media Presentation Wall Plates
MPI-WP Series: Media Presentation Wall Plates - International Version
CNSP-XX: Custom Serial Interface Cable
IRP2: IR Emitter Probe w/Terminal Block Connector

Notes:

1. ST-RMK Rack Mount Kit sold separately.
2. For DM 8G+ wiring, use Crestron DM-CBL-8G DigitalMedia 8G Cable, Crestron DM-CBL DigitalMedia Cable, Crestron DM-CBL-D DigitalMedia D Cable, or generic CAT5e (or better) UTP or STP. Maximum wire length for DM 8G+ is 330 ft (100 m) between devices. Shielded cable and connectors are recommended to safeguard against unpredictable environmental electrical noise which may impact performance at resolutions above 1080p. Refer to the Crestron DigitalMedia Design Guide, Doc. #4546 for complete system design guidelines. DM 8G+ is also compatible with HDBaseT Alliance specifications for connecting to HDBaseT compliant equipment. All wire and cables sold separately.
3. HDMI requires an appropriate adapter or interface cable to accommodate a DVI signal. CBL-HD-DVI interface cables available separately.
4. The RGB input can actually accept component, composite, and S-Video signals via direct interface to Crestron MPS Series products, or through an appropriate adapter (not included). However, input sync detection is not provided for composite or S-Video signal types through the RGB connection.
5. Receiving Power over DM (PoDM) or Power over HDBaseT (PoH) requires connection to a switcher or other equipment that has a PoDM or PoH PSE (Power Sourcing Equipment) port.
6. The DM-TX-401-C cannot be powered over Ethernet, and its DM OUT port should never be connected directly to an Ethernet network or device. However, an 802.3af or 802.3at compliant PoE PSE may be used as a PoDM power source for the DM-TX-401-C via a mutual connection to a DMC-C or DMC-C-DSP DM Switcher Input Card. For HDBaseT systems, refer to the HDBaseT receiver device for its PoH power sourcing capabilities.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.

The specific patents that cover Crestron products are listed online at: patents.crestron.com.

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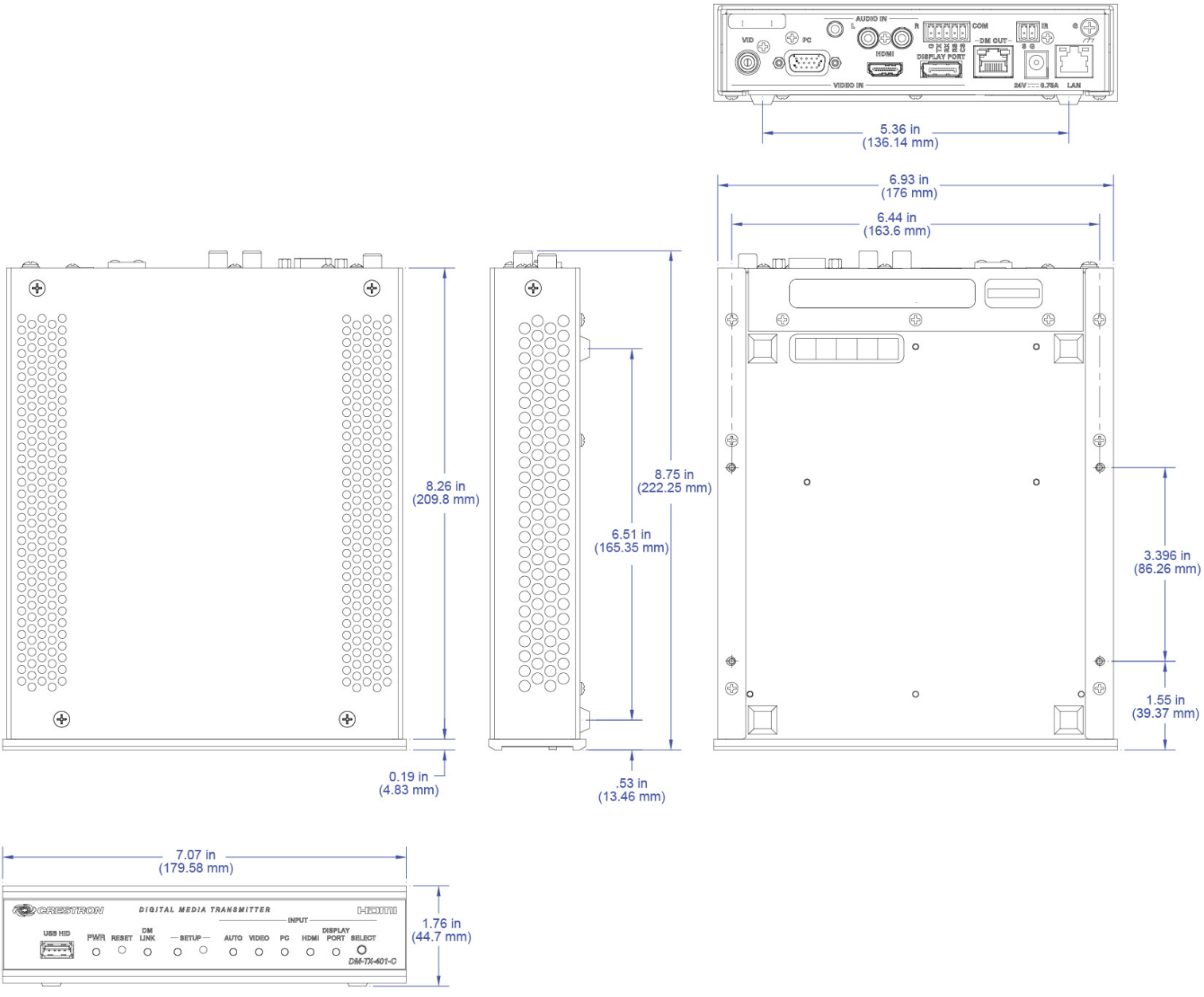

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